



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

February 15, 2012

Mr. Kevin French
Lebanon Public Schools
891 Exeter Road
Lebanon, CT 06249

PUBLIC WATER SYSTEM: Lebanon Middle School
(DPH Childcare License # 13938)
CLASSIFICATION TYPE: Non-Transient Non-Community
TOWN: Lebanon, CT
PWSID: CT0719063

SUBJECT: RESPONSE TO WELL #2 CORRECTIVE ACTION PLAN

Dear Mr. French:

Thank you for your recent submittal of the Well #2 Corrective Action Plan dated February 14, 2012, as required by C.F.R. § 141.403. At this time the corrective action plan as detailed in the submittal is approved and work may commence immediately. All work shall be conducted in accordance with the implementation schedule with a full return to compliance demonstrated by **May 31, 2012**.

Please be advised that if the Phase 1 work scheduled for Well #2 is not effective at addressing the contamination problem as evidenced by the weekly sampling efforts, an alternate action plan may be required. Weekly samples for Well #2 must be submitted electronically using EDI as results become available.

If you have any questions, please contact me at (860) 509-7333 or at 410 Capitol Avenue, MS#51WAT, P.O. Box 340308, Hartford, CT 06134-0308.

Sincerely,

A handwritten signature in cursive script that reads "Mandy B. Smith".

Mandy B. Smith
Sanitary Engineer 2
Drinking Water Section

TC
TC/mbs

cc: Dr. Robert W. Powitz, Acting Director, Lebanon Health Department
Carol Majewski, DPH Childcare Licensing Specialist
Mr. Paul Laframboise, Certified Operator
Brandon Handfield, Consulting Engineer, Anchor Engineering Services, Inc.
Gary Johnson, DWS Enforcement

Well # 2 Lebanon Middle school timeline

HISTORY

- October – November following issues with well # 2 explore options for L.M.S. water system.
- December 12, 2011 – Site Walk with Anchor Engineering (Anchor)
- January 10, 2012 – Presented Potential Options to B.O.E. Anchor to proceed with detailed analysis of each presented option and provide cost estimates
- January 24, 2012 – Presented Public Water System Evaluation Report to B.O.E. describing 3 repair options, recommendations and cost estimates. B.O.E. votes and unanimously approved Option #1 – Rehabilitate Middle School Well #2, which includes rehabilitation, treatment, testing and sampling of Well #2 and redirection of the existing drainage collection system to provide a minimum 25' separation to comply with DPH.
- February 6, 2012 – Lebanon Inland Wetland Commission approves permit for redirection of drainage collection system as supplied by Anchor.
- February 7, 2012 – Anchor meets with DPH to research file and discuss Option #1 with staff.

PROJECTED SCHEDULE

- February 14, 2012 – Formal response to be submitted to DPH describing proposed plan, anticipated schedule and deadline for compliance.
- February 20, 2012 – Millenium to commence Well #2 rehabilitation.
- February 21, 2012 – Contractors solicited to submit bids for relocation of drainage collection system work.
- February 24, 2012 – Millenium to complete Well #2 rehabilitation. Weekly treating, testing and sampling to commence.
- March 6, 2012 – Contractor bids due.
- March 13, 2012 – Select Contractor
- March 16, 2012 – 4th Week of Well #2 Testing. Upon confirmation of suitable test results, Relocation of Drainage Collection System to Proceed.
- March 16, 2012 – Preconstruction Meeting and Contract Signing
- March 20, 2012 – Commence Construction for Relocation of Drainage Collection System
- April 20, 2012 – Drainage Relocation Complete. 8th Week of Well #2 Testing.
- May 8, 2012 – Submission of Statement of Compliance to DPH.

OPTION #1 – REHABILITATION MIDDLE SCHOOL WELL #2

Well #2 is located approximately 26' from the southwest corner of the school building. An existing 15" CMP drainage pipe and yard drain are located between the well and the building and therefore, the 25' minimum separating distance has not been met. E. coli bacteria were detected within the water source from Well #2. Due to the lack of separation and contamination, Well #2 is not actively supplying the Middle School with water. The figure below depicts existing conditions.

In order to bring Well #2 into compliance with the Public Health Code the following steps are required.

1. Rehabilitate Well #2 Structure
 - a. Pull Submersible pump
 - b. Install Jaswell seal
 - c. Place Bentonite seal
 - d. Install submersible pump
 - e. Treat for E. coli contamination
 - f. Sample water to confirm compliance with Public Health Code
2. Reroute Drainage Collection System
 - a. Install new yard drain and abandon downstream piping
 - b. Install new HDPE connecting to existing system to the west
 - c. Install new storm manhole within existing system to west
 - d. Remove and replace all downstream piping
 - e. Install new flared end outlet

The figure provided below depicts the recommended drainage system modifications.



ANCHOR

ENGINEERING SERVICES, INC.

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41 Sequin Drive • Glastonbury, CT • 06033

March 13, 2012

Ms. Janet Tyler, Superintendent
Lebanon Public School District
891 Exeter Road
Lebanon, CT 06249

Re: Lebanon Middle School, Drainage System Modifications
Lebanon, CT

Dear Ms. Tyler:

Anchor Engineering Services, Inc. has completed a review of the bids submitted for the above referenced project. Enclosed please find the project bid tabulation.

As shown in the tabulation, Cunningham Construction (Cunningham) submitted the lowest total bid in the amount of \$33,990.00 and lowest unit bid for Rock in Trench at \$75/CY.

During review of Cunningham's bid, we noticed that the "Non-Collusion Affidavit of Bidder" was not included. To ensure that all documentation was in order, we contacted Joseph Cunningham to discuss the omission. Mr. Cunningham explained that the form was not part of Addendum #2 issued by Anchor Engineering to potential bidders and therefore it was his understanding that submission of the form was not required. Upon request, Mr. Cunningham promptly submitted the appropriate form to bring the bid into conformance.

Per our knowledge of previous work performed by Cunningham Construction for the Town of Lebanon and other nearby Municipalities and the submission of the lowest qualifying bid proposal, we recommend that Cunningham Construction be awarded the contract for the Lebanon Middle School Drainage System Modifications.

If you have any questions regarding the above or the enclosed information, please don't hesitate to contact me at (860) 633-8770.

Sincerely,

Brandon J. Handfield, P.E.
Associate

Enc. Bid Tabulation

Cc: Mr. Kevin French

LEBANON MIDDLE SCHOOL DRAINAGE SYSTEM MODIFICATIONS BID OPENING - 2:00 PM, THURSDAY, MARCH 8, 2012 LEBANON PUBLIC SCHOOL DISTRICT, SUPERINTENDENT'S OFFICE								
BIDDER	Attended Pre-Bid Meeting	5% Bid Bond Provided	Non-Collusion Affidavit of Bidders	Completed Bid Proposal	Addenda No. 1 March 2, 2012	Addenda No. 2 March 6, 2012	Base Bid	Unit Adjustment No. 1
Coit Excavating Inc.	Yes	\$4,000	Yes	Yes	Yes	Yes	\$77,800	375.00/yd
S & N Excavators Inc.	Yes	\$3,134.20	No	No	Yes	Yes	\$62,684	85.00/yd
Cunningham Construction	Yes	\$1,699.50	Yes**	Yes**	Yes	Yes	\$33,990	75.00/yd
LaRosa Earth Group, LLC	Yes	5%	Yes	Yes	Yes	Yes	\$49,000	125.00/yd
Putnam Welding & Equipment Repair, Inc.	Yes	5%	Yes	Yes	Yes	Yes	\$113,000	500.00/yd

** Non-Collusion Affidavit Submitted upon Request on 3/12/12

French, Kevin

From: Brandon Handfield [bhandfield@anchorengr.com]

Sent: Tuesday, March 20, 2012 1:26 PM

To: French, Kevin

Cc: Tyler, Janet

Subject: Middle School Drainage Reconstruction

Kevin, as discussed, following please find a summary of anticipated construction costs:

BASE BID: \$33,990 (Cunningham Construction Base Bid)
CONTINGENCY: \$8,500 (25% Contingency to cover unforeseen issues, including ledge with storm trench, estimated 90 CY @ \$75/CY)
CONST. ADMIN: \$5,000 (Construction Inspection, Administration, DPH Coordination, Reporting, Payment Requisitions, etc.)

Total recommended budget: \$48,000

Brandon J. Handfield, P.E.

Senior Civil Engineer / Associate



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